Dr. Kevin J. Kramer
Innovation Nuclear Systems Program Manager
TerraPower, LLC

Summary: Kevin is a senior engineer with 20 years of experience in hardware development, simulation, and computational modeling. His experience includes flight hardware design with NASA, advanced propulsion R&D, stockpile stewardship, DOE weapons development, and nuclear power research. With a sound background in mechanical and nuclear engineering and a diverse depth and breadth ranging from multiphysics to systems engineering, he has led various research and development efforts to successfully deliver results. He has co-authored over 40 technical papers and co-inventor on multiple patents.

Research and Professional Experience

TerraPower, LLC - *Innovation Nuclear Systems Program Manager*
Responsible manager for Molten Chloride Fast Reactor Design and Project Management. Currently serving as engineering group leader for the Innovation Department and leading TerraPower project management team for ARC15 project. Previous responsibilities as Innovation Systems Engineer included design team leadership and project management for MCFR systems cost model as well as overall project management and systems engineering for MCFR program.

Lawrence Livermore National Laboratory – Scientific and Engineering Team Lead
Prior to joining TerraPower, Kevin served in multiple positions at Lawrence Livermore National Laboratory. While at Livermore, was responsible for nuclear and mechanical design efforts for nuclear plant systems while serving as Analysis Group Leader for National Ignition Facility. In this role, he led technical and programmatic efforts for development of nuclear systems of an advanced power plant concept. Prior to this work, he led advanced simulation and modeling development team. Kevin also served in multiple Principal Investigator (PI) roles at different times including PI for ternary alloy development to enhance safety of liquid metal-cooled nuclear energy systems, PI for additive manufacturing fabrication of radiation resistant materials effort, and PI for supercomputing grand challenges for high fidelity nuclear calculations to support design and analysis of advanced concept power plants.

Prior to moving to nuclear energy, Kevin served as a Code Physicist in the area of weapons physics and design. He supported the multidisciplinary software development and design efforts for stockpile systems and developed advanced code capabilities to support multiple programmatic customers within the weapons complex. Prior to moving to weapons physics, he started in weapons engineering and led engineering test and analysis efforts for weapon delivery and payload systems with programmatic responsibility for key stockpile system components.